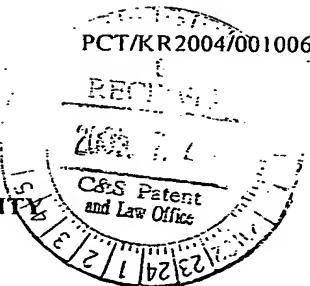


PATENT COOPERATION TREATY

PCTINTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)



Applicant's or agent's file reference PCT-2093 09-2004-0492-2073	FOR FURTHER ACTION		See Form PCT/IPEA/416
International application No. PCT/KR2004/001006	International filing date (day/month/year) 30 APRIL 2004 (30.04.2004)	Priority date (day/month/year) 30 APRIL 2003 (30.04.2003)	
International Patent Classification (IPC) or national classification and IPC IPC7 H01M 4/04			
Applicant HANYANG HAK WON CO., LTD. et al			

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 3 sheets, including this cover sheet.

3. This report is also accompanied by ANNEXES, comprising:

- (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:
 - sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
 - sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
- (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

- Box No. I Basis of the report
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

Date of submission of the demand 06 MAY 2004 (06.05.2004)	Date of completion of this report 18 JULY 2005 (18.07.2005)
Name and mailing address of the IPEA/KR Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea	Authorized officer LEE, HYUN SONG
Faximile No. 82-42-472-7140	Telephone No. 82-42-481-8296

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/001006

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

This report is based on translations from the original language into the following language _____ which is the language of a translation furnished for the purposes of:

- international search (under Rules 12.3 and 23.1(b))
- publication of the international application (under Rule 12.4)
- international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):

the international application as originally filed/furnished

the description:
pages _____ received by this Authority on _____ as originally filed/furnished
pages* _____ received by this Authority on _____
pages* _____ received by this Authority on _____

the claims:
pages _____ as originally filed/furnished
pages* _____ as amended (together with any statement) under Article 19
pages* _____ received by this Authority on _____
pages* _____ received by this Authority on _____

the drawings:
pages _____ as originally filed/furnished
pages* _____ received by this Authority on _____
pages* _____ received by this Authority on _____

the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3. The amendments have resulted in the cancellation of:

- the description, pages _____
- the claims, Nos. _____
- the drawings, sheets _____
- the sequence listing (specify): _____
- any table(s) related to sequence listing (specify): _____

4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- the description, pages _____
- the claims, Nos. _____
- the drawings, sheets _____
- the sequence listing (specify): _____
- any table(s) related to sequence listing (specify): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/001006

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims	None	YES
	Claims	1-16	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-16	NO
Industrial applicability (IA)	Claims	1-16	YES
	Claims	None	NO

2. Citations and explanations (Rule 70.7)

The following documents has been cited as the most relevant arts from the International Search Report:

D1: US 5980786 A

D2: JP12-149923 A

1. Novelty and inventive step

D1 concerns a method for producing a cathode active material for a lithium secondary battery having a large initial capacity and excellent in the charging-discharging cycle characteristics, while the generation of NO₂ is restrained. In the production of a cathode active material for a lithium secondary battery made up of a complex oxide containing at least lithium, after adding a material generating oxygen on spray pyrolysis, such as nitric acid, hydrogen peroxide, etc., to an aqueous or alcohol solution of the organic acid salts of metal elements constituting the complex oxide, the mixture is subjected to spray pyrolysis to form a complex oxide, and the complex oxide is heat-treated.

D2 discloses a manufacturing method of a positive electrode active material for a lithium ion secondary battery having improved charge-discharge efficiency and potential drop at the time of discharging at high temperature. A lithium-nickel composite for the positive electrode active material is made by spraying or freezing and drying slurry having additional boron compound. Final step of manufacturing process is baking slurry at 600-900 degree C for about 6 hours or more in an oxidative environment.

The present invention relates to a method for producing lithium composite oxide used as positive electrode active material by spray pyrolysis and thermal treating. The claims 1-16, the process for manufacturing the cathode active material of lithium multiple oxides and the use of this composition for a lithium secondary battery are considered to mere simple combination of D1 and D2. In addition, the present invention has no expected effect beyond the combination of D1 and D2.

Thus, the subject matter of claims 1-16 does not meet PCT Article 33(2) and 33(3)

2. Industrial applicability

The claims 1-16 is considered to be industrially applicable under PCT Article 33(4).